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**Lewis and Clark's Expedition.**

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VOLUME IV.





HISTORY OF THE EXPEDITION //

UNDER THE COMMAND OF

// LEWIS AND CLARK, //

*To the Sources of the Missouri River, thence across the Rocky Mountains and  
down the Columbia River to the Pacific Ocean, performed during  
the Years 1804-5-6, by Order of the*

GOVERNMENT OF THE UNITED STATES.

A NEW EDITION,

FAITHFULLY REPRINTED FROM THE ONLY AUTHORIZED EDITION OF 1814, WITH COPIOUS  
CRITICAL COMMENTARY, PREPARED UPON EXAMINATION OF UNPUBLISHED  
OFFICIAL ARCHIVES AND MANY OTHER SOURCES OF INFORMATION,  
INCLUDING A DILIGENT STUDY OF THE

ORIGINAL MANUSCRIPT JOURNALS

AND

FIELD NOTEBOOKS OF THE EXPLORERS,

TOGETHER WITH

A New Biographical and Bibliographical Introduction, New Maps  
and other Illustrations, and a Complete Index,

BY

ELLIOTT COUES,

*Late Captain and Assistant Surgeon, United States Army,  
Late Secretary and Naturalist, United States Geological Survey,  
Member of the National Academy of Sciences, etc.*

IN FOUR VOLUMES.

VOL. IV.

NEW YORK.

FRANCIS P. HARPER.

1893.

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## LIST OF MAPS AND OTHER PLATES.

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### VOLUME I.

- ✓ PORTRAIT OF MERIWETHER LEWIS, . . . . *Frontispiece*
- ✓ FACSIMILE LETTER OF MERIWETHER LEWIS, . . *Facing page xv*
- ✓ FACSIMILE LETTER OF WILLIAM CLARK, . . . *Facing page lxiii*

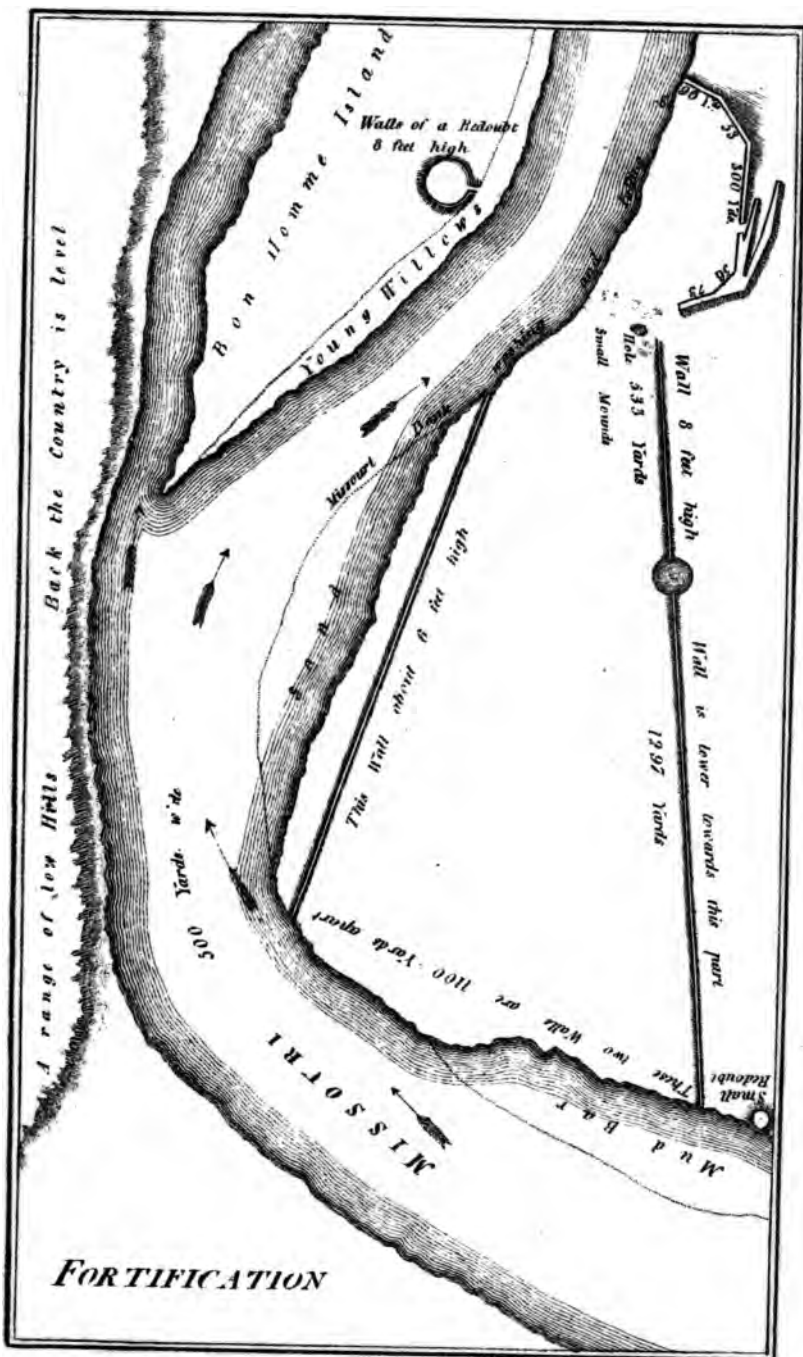
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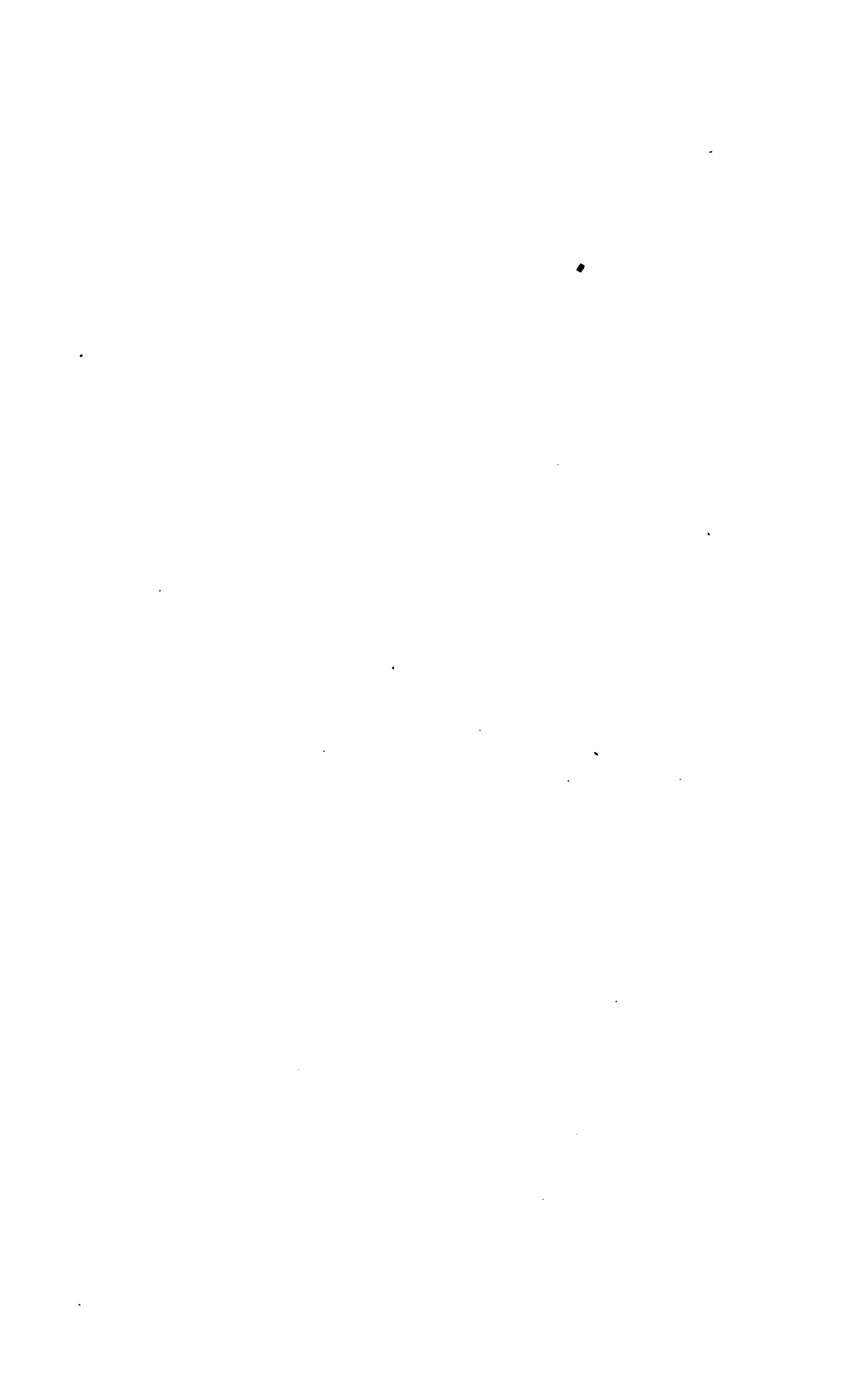
- ✓ PORTRAIT OF WILLIAM CLARK, . . . . *Frontispiece*

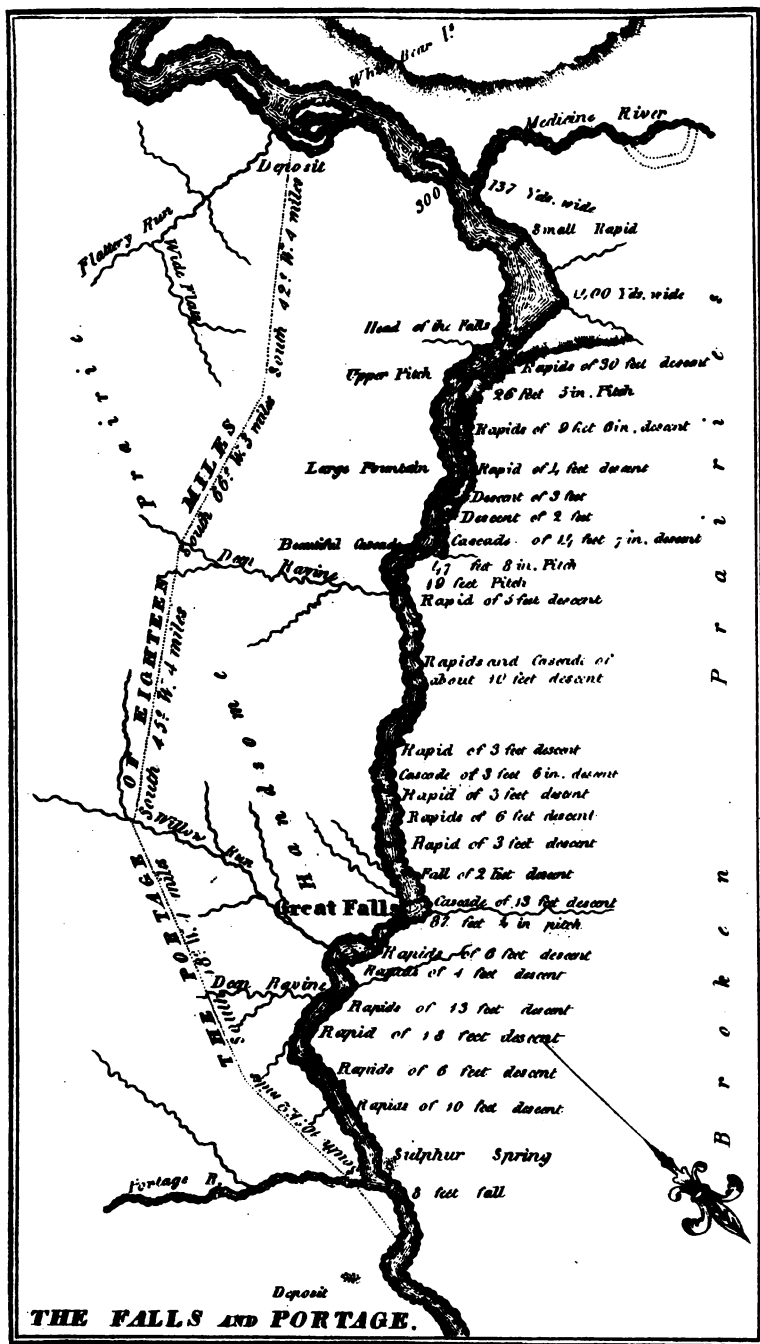
### VOLUME IV.

- ✓ MAP OF LEWIS AND CLARK'S ROUTE, BY WILLIAM CLARK.
- ✓ ANCIENT FORTIFICATION ON THE MISSOURI RIVER, OPPOSITE BONHOMME ISLAND.
- ✓ GREAT FALLS OF THE MISSOURI RIVER.
- GREAT FALLS OF THE COLUMBIA RIVER.
- ✓ GREAT SHOOT OR RAPIDS OF THE COLUMBIA RIVER.
- ✓ MOUTH OF THE COLUMBIA RIVER.  
(The above six Maps are reproduced in facsimile from the Philadelphia Edition of 1814.)
- ✓✓ TRACING COPY OF THE ORIGINAL MAP FORWARDED BY MERIWETHER LEWIS TO PRESIDENT JEFFERSON FROM FORT MANDAN, APRIL 7TH, 1805.
- ✓ MODERN MAP OF LEWIS AND CLARK'S ROUTE, PREPARED FOR COMPARISON WITH CLARK'S MAP OF 1814, BY DR. COUES.
- ✓ GENEALOGICAL TABLE OF THE DESCENDANTS OF WILLIAM CLARK.
- ✓ GENEALOGICAL TABLE OF THE LIVING ISSUE OF WILLIAM CLARK.

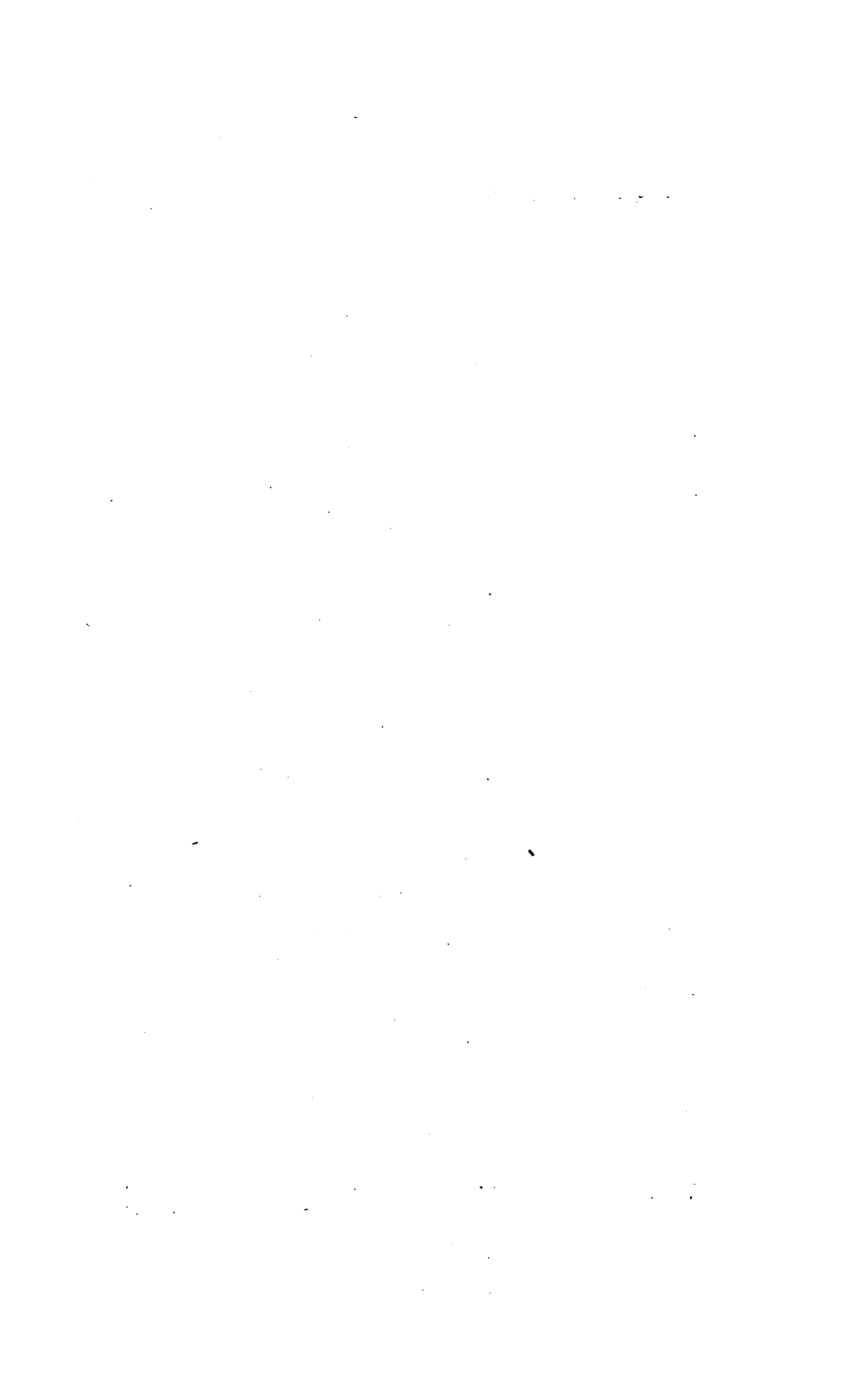












Great Falls of  
*COLUMBIA RIVER*

*E-n-e-e-s-h-e-r.* Nation

High Hills

Portraitage

Camp  
22 and 23  
Oct. 1892

DU  
GD  
o  
FixA

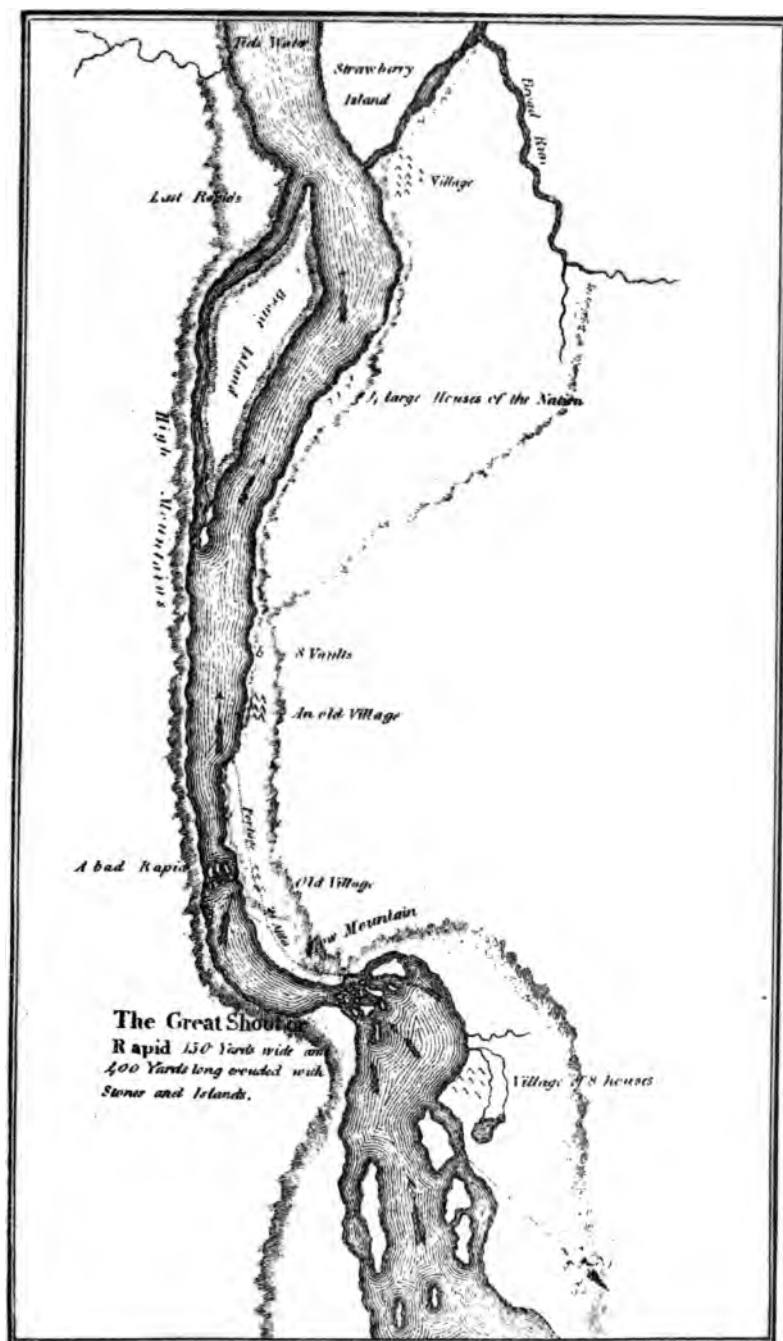
fall 20 feet perpendicular

A geological cross-section diagram showing a fault line. The fault is labeled "Perpendicular" and "Rocks". The diagram illustrates a fault line where the rocks on either side are displaced. The fault line is labeled "Perpendicular" and "Rocks".

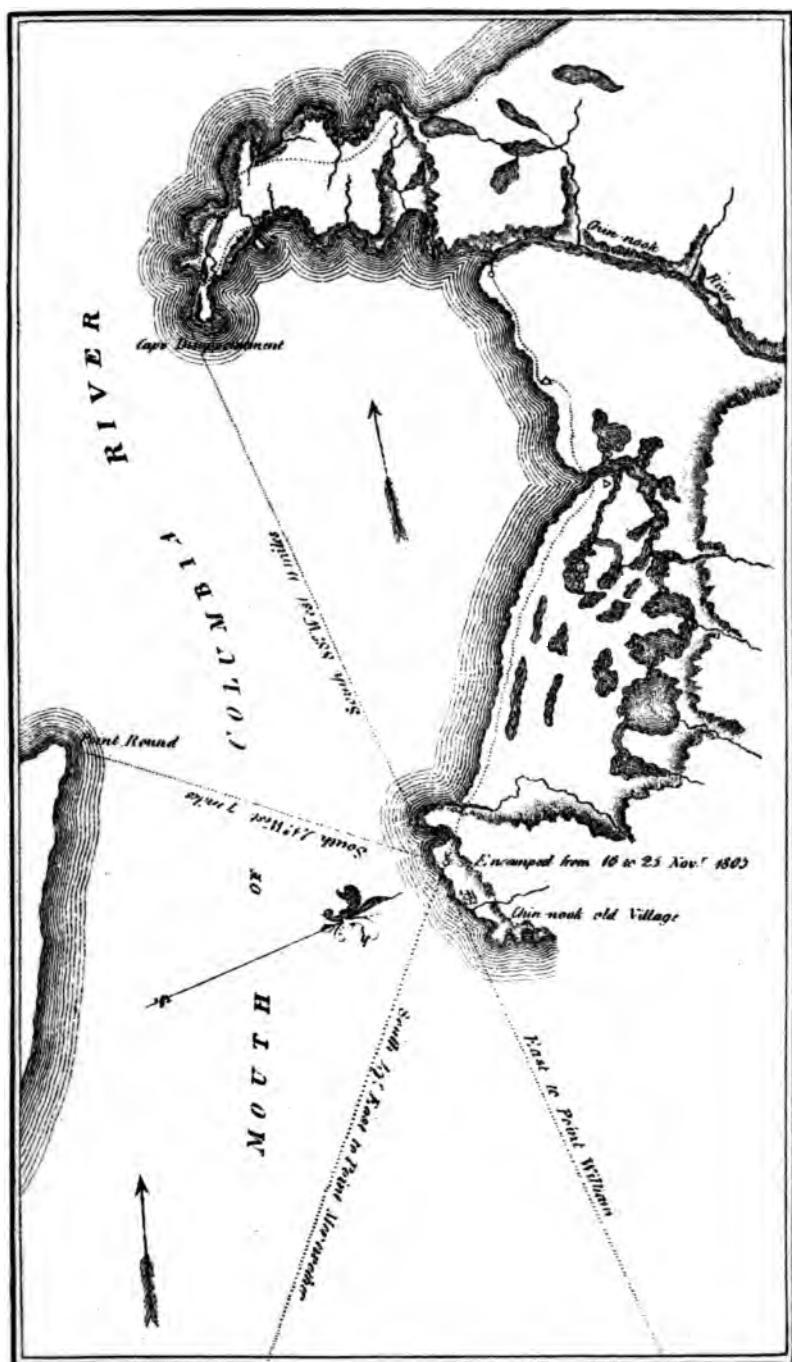
Great Rapid  
of about 6 feet fall

|     |        |
|-----|--------|
| ft. | in.    |
| 37  | 8 fall |











Wi  
\* J  
Mc  
Wi  
Ma  
Ga  
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\* Ch  
Joh  
Ma  
\* Al  
Wi  
Sam  
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Ma  
Joh  
Gou  
Chu  
Men  
\* Jul  
Gou  
\* Ek  
Julia  
Sedd  
John  
Ellen  
Jesse  
\* Ma  
Willi  
\* Cas  
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\* Mai  
John  
Carr  
Maris  
Charl  
\* Len  
Mary  
Evel  
Edwin  
\* Rob  
Julia  
Elean  
John  
\* Beat  
Henry  
Beatr  
Carlot  
Willie  
Cleme  
John C  
Harrie  
Ellen  
\* Willi  
Seddie  
Walter  
Edwan



1. The first part of the paper is devoted to a discussion of the various methods which have been proposed for the determination of the rate of reaction between a radical and a molecule. The methods are classified into two groups: (a) methods which involve the measurement of the rate of disappearance of the radical, and (b) methods which involve the measurement of the rate of appearance of the product. The first group includes the methods of the "clock" reaction, the method of the "induced reaction", and the method of the "chain reaction". The second group includes the method of the "trapped radical", the method of the "product analysis", and the method of the "rate of reaction".

2. The second part of the paper is devoted to a discussion of the various factors which influence the rate of reaction between a radical and a molecule. These factors are: (a) the nature of the radical, (b) the nature of the molecule, (c) the temperature, (d) the concentration of the radical, (e) the concentration of the molecule, (f) the presence of other substances, and (g) the presence of light.

3. The third part of the paper is devoted to a discussion of the various applications of the study of the rate of reaction between a radical and a molecule. These applications are: (a) the study of the mechanism of the reaction, (b) the study of the kinetics of the reaction, (c) the study of the thermodynamics of the reaction, (d) the study of the photochemistry of the reaction, and (e) the study of the catalysis of the reaction.

## INDEX.

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N. B.—This index covers *all* the matter of the three preceding volumes, introductory and appendicial, as well as main text and notes thereto. It is mainly an index of *names*, proper and common, without analysis of what comes under them. All proper names are intended to be indexed, except a few which recur incessantly in the main text and notes, as Lewis, Clark, the Missouri, etc., and a few others of no pointed implication, as Dakota, Montana, Indians, etc., or of mere allusion. Of common names the list is pretty full, though it is exclusive, as a rule, of mere mention, and of incessantly recurring words. Proper names are distinguished from common by capitalization, the same as if they occurred in ordinary sentences. Personal proper names are of course entered by surnames; as, Smith, John. Names of Indian families and tribes are in the singular number, and not followed by "Inds.," except in distinguishing such from places, etc., of same name. Place-names which are phrases are entered as usually spoken and written; thus, Camp Chopunnish, Fort Clatsop, but Chopunnish r., Clatsop co., etc. Cross-references are made only in special cases. Variant spellings of proper names are entered, as Arikara, Ricara, both of which require to be looked up to find out all that is given in such cases. The mode of alphabetizing is by taking an entry-word and finishing with phrases under it, when any, before proceeding to its compounds; thus, Cow cr., Cow isl., cowas, cowbane, cow-beetle—not cowas, Cow cr., cowbane, cow-beetle, Cow isl. This introduces a logical element at slight infraction of the alphabet, and the nature of the matter to be indexed seemed to call for such method. Some abbreviations are used; these are chiefly: br., branch; co., county; cr., creek; fk., fork; Inds., Indians; isl., island; ldg., landing; mt., mts., mountain, mountains; pra., prairie; rap., rapid or rapids; res., (Indian) reservation; r., river; spr., spring or springs; sta., station. Roman numerals all refer to Vol. I.; the unbroken pagination of the rest of the work renders reference by Vol. needless in case of the arabic figures.

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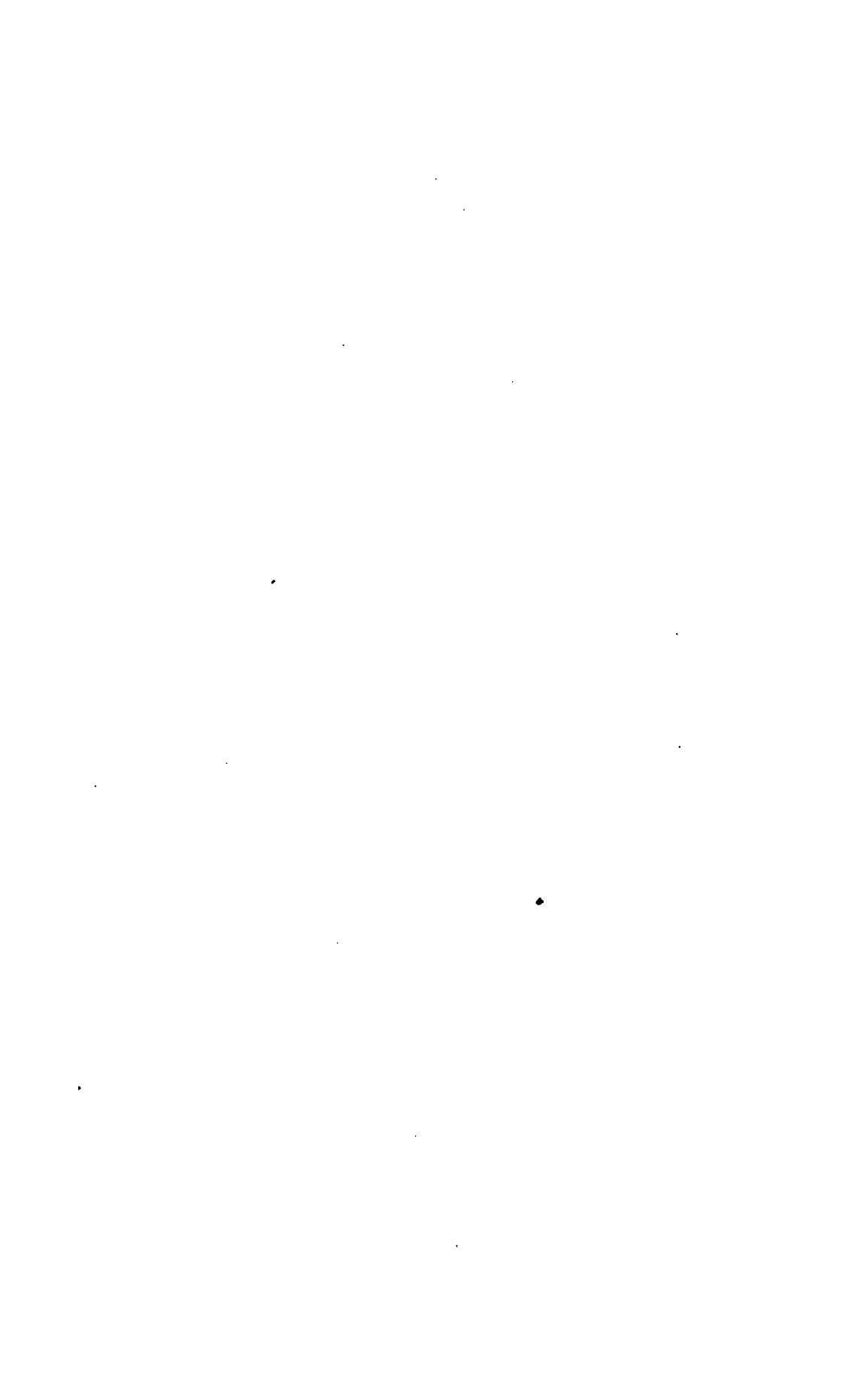
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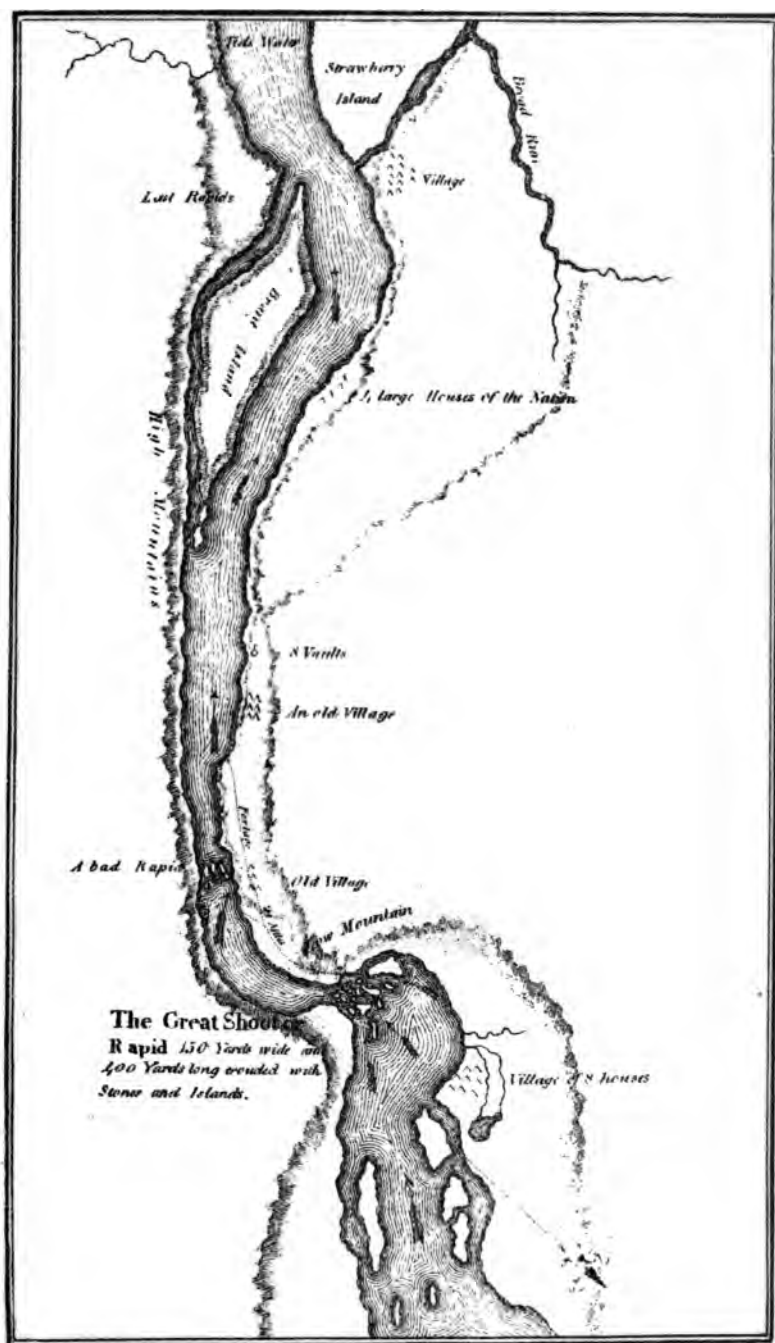
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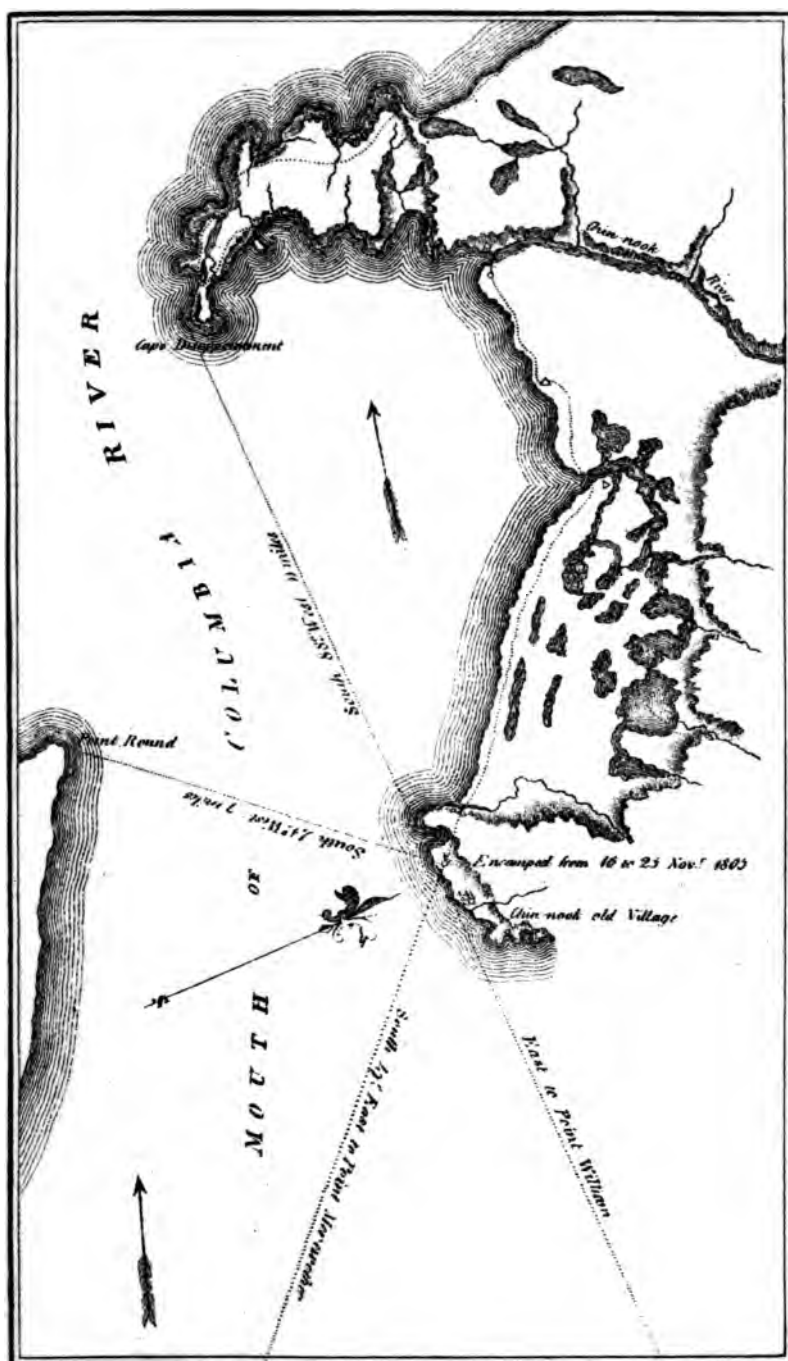
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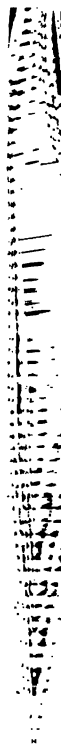
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